

Abstract

The invention relates to a fuel cell stack with a plurality of fuel cell elements (2) which are layered on one another with separating plates (3) located in between each. To supply a combustion gas (13) and discharge the exhaust gas inside channels (4, 5) are formed. The fuel cell stack as claimed in the invention is characterized in that on the first side of the fuel cell elements (2) several lengthwise channels (6) which run parallel are formed for routing of the combustion gas, and on the one ends a distributor zone (7) is formed which connects the supply channel (4) to the respectively first ends of the lengthwise channels (6), and there is a collecting zone (8) which connects the discharge channel (5) to the end of the lengthwise channels (6) which is the second end at the time, and that on the second side of the fuel cell elements (2) there is an oxidizer guide (9) which runs in the direction of the lengthwise channels (6).

Figure 2